

Title (en)
IMAGE SENSOR APPARATUS

Publication
EP 0196006 A3 19870121 (EN)

Application
EP 86103703 A 19860319

Priority
JP 5341285 A 19850319

Abstract (en)
[origin: EP0196006A2] In an image sensor apparatus for reading an image of an object (16) to be read out, light rays emitted from a light source (42) and passing through a slit (38) are converged by a cylindrical lens (46) and are incident on an image transfer optical unit (26). The optical unit (26) has a laminated structure in which a plurality of optical transparent plate segment (44) are bonded by adhesive layers (45). The light rays introduced into respective plate segments (44) are projected to the object (16). The light rays reflected from the object are reintroduced into the respective plate segments (44) and are totally reflected by side surfaces (44-3, 44-4) of the segments (44). The CCD array (30) receives the light rays directly directed from the object (16) and the light rays totally reflected from the side surfaces (44-3, 44-4).

IPC 1-7
G03G 15/32

IPC 8 full level
H04N 1/028 (2006.01); **G02B 3/00** (2006.01); **H04N 1/031** (2006.01)

CPC (source: EP KR)
G02B 6/06 (2013.01 - EP); **H04N 1/028** (2013.01 - KR); **H04N 1/02855** (2013.01 - EP); **H04N 1/0287** (2013.01 - EP); **H04N 1/0311** (2013.01 - EP); **H04N 1/0312** (2013.01 - EP); **H04N 1/0316** (2013.01 - EP); **G02B 3/005** (2013.01 - EP)

Citation (search report)

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Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0196006 A2 19861001; **EP 0196006 A3 19870121**; **EP 0196006 B1 19901227**; DE 3676525 D1 19910207; JP H0710088 B2 19950201; JP S61212960 A 19860920; KR 860007810 A 19861017; KR 920005194 B1 19920629

DOCDB simple family (application)
EP 86103703 A 19860319; DE 3676525 T 19860319; JP 5341285 A 19850319; KR 860001503 A 19860304